## ABSTRACT OF THE INVENTION

The present invention relates to systems and methods that maps industrial device data (*e.g.*, from data structures) to database tables that can be accessed *via* standard database interfaces. In various aspects of the present invention, elements associated with

5   one or more data structures can be represented in one or more database tables. Typically, data structure elements are stored within respective columns of a record of a database table(s). Individual database tables can be accessed *via* a standard interface such as JDBC in order to store data within (*e.g.*, write) and/or retrieve data from (*e.g.*, read) a database table. In addition, a plurality of database tables can be concurrently accessed for

10   distributed transaction processing. Thus, the subject invention provides access to industrial control data without having to install and/or execute custom or specialized software on either the industrial device or the system accessing the industrial device.